

ABSTRACT

[00102] A data processing method for the hybrid ARQ type II/III on a uplink of a wide-band radio communication system includes the steps of: a) generating a radio link control – protocol data unit (hereinafter, referred to as a RCL-PDU) used for combining pre-transmitted data and re-transmitted data with a changeable coding rate in a radio link control (hereinafter, referred to as a RLC) layer and , and protocol data unit which includes information of the RLC-PDU (hereinafter, referred to as a HARQ-RLC-Control-PDU); b) transmitting the RLC-PDU and the HARQ-RLC-Control-PDU to a medium access control dedicated (hereinafter, referred to as a MAC-D) treating a general user part in a medium access control (hereinafter, referred to as a MAC) layer through a logical channel; c) transforming the RLC-PDU and the HARQ-RLC-Control-PDU received from the receiver RLC layer to MAC-PDU and HARQ-MAC-Control-PDU and transmitting the transformed MAC-PDU and the HARQ-MAC-Control-PDU to the physical layer through a transport channel; and d) transforming the MAC-PDU and the HARQ-MAC-Control-PDU received from the MAC-D to a radio transmission form and then transmitting them to a receiver through the physical layer.